



431 River Road  
Bow, NH 03304

September 13, 2019

Submitted on-line via NetDMR

U.S. Environmental Protection Agency  
Water Technical Unit (SMR-04)  
OES4 – SMR  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912

Reference: NPDES Permit No. NH0001465, Merrimack Station, GSP Merrimack LLC,  
issued June 25, 1992, modified October 22, 1992, modified January 10, 2018.

Dear Sir/Madam:

Merrimack Station  
Monthly NPDES Discharge Monitoring Report  
August 2019

In compliance with Part I, Section B.1., of the NPDES permit (see Reference), Granite Shore Power LLC (GSP) herein submits the monthly NPDES report for Merrimack Station for the month of August. With the exception of Outfall 003A, all sampling and analyses were conducted by station personnel in accordance with EPA approved procedures referenced at 40 CFR Part 136. Eastern Analytical, Inc. of Concord, NH, performed the total suspended solids and oil and grease analyses on the monthly grab samples collected at Outfall 003A. There were no oily sheens, floating solids, or foam observed in any of the outfall discharges in other than trace amounts. There were no permit noncompliances recorded during the month.

As instructed by the agencies, GSP now reports a concentration of zero ("0") when the analytical result is less than the method detection limit (MDL). For this report, the following MDLs were used: Total Residual Oxidants = 0.01 mg/l (SM 4500-Cl D – 2011); Total Residual Oxidants = 0.05 mg/l (SM 4500-Cl E – 2011); Oil & Grease = 5.0 mg/l (EPA 1664B); Total Suspended Solids = 5.0 mg/l (SM 2540D – 2011).

The pH at Outfall 003 (Station S-0) dipped below 6.5 SU for brief periods during four days in August. Compliance was maintained with the permit however, as the effluent pH closely tracked the naturally occurring river pH at Station N-5 (see the attached data sheets), and any discrepancies were within the analytical limits of the equipment accuracy and precision. As such, these low pH values were not the result of activities at Merrimack Station and so should not be recorded as violations in the Integrated Compliance Information System, Enforcement and Compliance History Online, or any other EPA compliance database.

September 13, 2019

This report is required by, and prepared specifically for, the U.S. Environmental Protection Agency (EPA). It presents truly, accurately and completely, the observed measurements and analyses required by the EPA to be performed or submitted, but only such observed results. It is not intended as an assertion of the accuracy of any instrument, reading, or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions regarding this report, please call Allan Palmer, Senior Engineer, at (603) 230-7951.

Sincerely,

GRANITE SHORE POWER

A handwritten signature in black ink, reading "Elizabeth H. Tillotson". The signature is written in a cursive style with a large, stylized "E" and "T".

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Elizabeth H. Tillotson  
Executive Director of Administration & Regulatory Affairs

Enclosures

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR August 2019

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/19	6.90	1830	6.80	6.72	0745	96
08/02/19	6.95	1715	6.85	6.79	0915	96
08/03/19	6.86	1600	6.82	6.79	0500	96
08/04/19	6.86	1900	6.80	6.75	0345	96
08/05/19	6.98	1800	6.82	6.72	0845	96
08/06/19	7.04	1815	6.88	6.75	0630	96
08/07/19	6.96	1415	6.86	6.74	0715	96
08/08/19	7.02	1730	6.85	6.73	0900	96
08/09/19	7.12	1715	6.87	6.71	0830	96
08/10/19	7.12	1730	6.90	6.73	0700	96
08/11/19	7.23	1745	6.93	6.75	0545	96
08/12/19	7.25	1800	6.96	6.75	0545	96
08/13/19	7.02	1915	6.89	6.75	0700	96
08/14/19	7.10	1930	6.92	6.77	0700	96
08/15/19	6.99	2115	6.89	6.77	0715	96
08/16/19	7.01	1815	6.88	6.75	0830	96
08/17/19	6.94	0015	6.85	6.74	1045	96
08/18/19	6.89	2015	6.81	6.73	0915	96
08/19/19	6.89	1930	6.77	6.67	0815	96
08/20/19	7.07	1830	6.84	6.67	0700	96
08/21/19	6.87	0015	6.78	6.71	0715	96
08/22/19	6.92	1915	6.79	6.69	0545	96
08/23/19	6.89	1715	6.79	6.70	0715	96
08/24/19	6.95	1615	6.84	6.78	0800	96
08/25/19	7.01	1700	6.87	6.77	0800	96
08/26/19	7.05	1730	6.91	6.80	0645	96
08/27/19	7.02	1745	6.89	6.80	0430	96
08/28/19	6.98	2045	6.89	6.77	0645	96
08/29/19	7.10	1830	6.89	6.77	0630	96
08/30/19	6.99	1730	6.86	6.75	0730	96
08/31/19	6.98	1745	6.86	6.76	0515	96
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AVERAGE	7.00		6.86	6.74		
STD DEV.:	0.10		0.05	0.03		

PUBLIC SERVICE OF NEW HAMPSHIRE  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR August 2019

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
08/01/19	7.48	0930	7.03	6.72	1245	96
08/02/19	7.40	2045	6.87	6.62	0730	77
08/03/19	7.36	0000	6.81	6.60	1000	49
08/04/19	7.88	1445	7.14	6.73	1130	88
08/05/19	7.51	1545	6.90	6.67	0530	96
08/06/19	7.55	1800	6.89	6.59	0530	96
08/07/19	7.13	1745	6.89	6.72	0645	96
08/08/19	7.14	1715	6.85	6.61	0500	96
08/09/19	7.28	1645	6.87	6.57	0445	96
08/10/19	7.74	1715	6.91	6.58	0615	96
08/11/19	7.46	1645	6.92	6.68	0600	96
08/12/19	6.94	0000	6.73	6.59	0430	96
08/13/19	7.05	1700	6.88	6.71	0830	96
08/14/19	7.58	1600	6.87	6.65	0500	96
08/15/19	7.00	0045	6.82	6.68	0600	96
08/16/19	7.75	1815	6.87	6.62	0215	96
08/17/19	7.09	0015	6.79	6.63	1200	96
08/18/19	7.15	1815	6.73	6.61	0430	96
08/19/19	6.80	1530	6.71	6.61	0645	96
08/20/19	6.83	1500	6.71	6.54	0700	96
08/21/19	6.74	0015	6.60	6.50	0000	96
08/22/19	6.82	0745	6.52	6.41	0600	96
08/23/19	6.78	1400	6.60	6.48	0600	96
08/24/19	6.80	1230	6.54	6.43	1815	96
08/25/19	7.45	1315	6.64	6.48	0445	96
08/26/19	6.89	1200	6.54	6.35	1700	96
08/27/19	7.28	1900	6.77	6.28	0730	96
08/28/19	7.35	1300	7.25	7.19	0500	96
08/29/19	7.26	0900	7.18	7.06	0000	96
08/30/19	7.26	1300	7.12	7.02	0615	96
08/31/19	7.09	0015	6.86	6.64	2315	96
AVERAGE	7.22		6.83	6.63		
STD DEV.:	0.32		0.18	0.19		